

Amendments to the Claims:

Please amend claims 1-14 and 16 as shown in the following listing of claims. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) for simultaneously transmitting at least [[a]] first (s'_1)-and [[a]] second (s'_2)-~~signal signals~~, the first signal (s'_1)-being modulated according to a first modulation constellation, the second signal (s'_2)-being modulated according to a second modulation constellation, wherein the transmitter is arranged to pre-code at least the first signal (s'_1)-through a modification of the first modulation constellation so as to prevent a correlation between the at least first (s'_1)-and second (s'_2)-simultaneously transmitted signals.
2. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) according to claim 1, wherein the pre-coding of at least the first signal (s'_1)-comprises a rotation of the first modulation constellation through a first angle.
3. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) according to claim 1, wherein the pre-coding of at least the first signal (s'_1)-comprises a change of the order of the first modulation constellation.
4. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) according to claim 3, wherein the pre-coding further comprises a change of the number of simultaneously transmitted signals (s'_1 , s'_2).
5. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) according to claim 1, wherein the transmitter is arranged to pre-code at least the first (s'_1)-signal after receipt of a first signal from a receiver (~~R_{x1} , R_{x2}~~) of the at least first (s'_1)-and second (s'_2)-simultaneously

transmitted signals.

6. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) according to claim 1, wherein the transmitter is arranged to transmit a second signal to a receiver (~~R_{x1} , R_{x2}~~) of the at least first (~~s'_1~~) and second signals (~~s'_2~~) in order to notify the receiver about the pre-coding of at least the first (~~s'_1~~) signal.

7. (currently amended) Transmitter (~~T_{x1} , T_{x2}~~) according to claim 1, wherein the first and second modulation constellations are M-ary QAM modulation constellations.

8. (currently amended) Receiver (~~R_{x1} , R_{x2}~~) for simultaneously receiving at least ~~[[a]]~~ first (~~s'_1~~) and ~~[[a]]~~ second (~~s'_2~~) ~~signal signals~~ from a transmitter (~~T_{x1} , T_{x2}~~), the first received signal (~~s'_1~~) being modulated according to a first modulation constellation, the second received signal (~~s'_2~~) being modulated according to a second modulation constellation, in which at least the first received signal (~~s'_1~~) is pre-coded through a modification of the first modulation constellation so ~~as~~ to prevent a correlation between the at least first (~~s'_1~~) and second (~~s'_2~~) simultaneously received signals.

9. (currently amended) Receiver (~~R_{x1} , R_{x2}~~) according to claim 8, wherein the pre-coding of the first (~~s'_1~~) received signal comprises a rotation of the first modulation constellation.

10. (currently amended) Receiver (~~R_{x1} , R_{x2}~~) according to claim 8, wherein the pre-coding of the first (~~s'_1~~) received signal comprises a change of the order of the first modulation constellation.

11. (currently amended) Receiver (~~R_{x1} , R_{x2}~~) according to claim 8, wherein the pre-coding further comprises a change of the number of simultaneously received signals (~~s'_1 , s'_2~~).

12. (currently amended) Receiver (~~R_{x1}~~, ~~R_{x2}~~) according to claim 8, wherein the receiver is arranged to transmit a first signal to the transmitter in a response to which the transmitter is arranged to pre-code at least the first (~~s₁~~) signal.

13. (currently amended) Receiver (~~R_{x1}~~, ~~R_{x2}~~) according to claim 8, wherein the receiver is arranged to receive a second signal from the transmitter (~~T_{x1}~~, ~~T_{x2}~~) in a response to the transmitter pre-coding at least the first (~~s₁~~) signal.

14. (currently amended) Receiver (~~R_{x1}~~, ~~R_{x2}~~) according to claim 8, wherein the first and second modulation constellations are M-ary QAM modulation constellations.

15. (original) Transceiver comprising a transmitter according to claim 1.

16. (currently amended) Transceiver according to claim 15, further comprising a receiver (~~R_{x1}~~, ~~R_{x2}~~) for simultaneously receiving at least ~~[[a]]~~ first (~~s₁~~) and ~~[[a]]~~ second (~~s₂~~) ~~signal~~ signals from a transmitter (~~T_{x1}~~, ~~T_{x2}~~), the first received signal (~~s₁~~) being modulated according to a first modulation constellation, the second received signal (~~s₂~~) being modulated according to a second modulation constellation, in which at least the first received signal (~~s₁~~) is pre-coded through a modification of the first modulation constellation so ~~as~~ to prevent a correlation between the at least first (~~s₁~~) and second (~~s₂~~) simultaneously received signals.

17. (original) Wireless device comprising a transmitter according to claim 1.

18. (original) Telecommunication system comprising a transmitter according to claim 1.